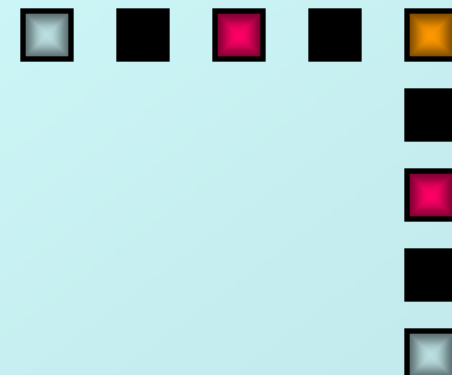


PHENIX WEEKLY PLANNING

2/22/2007

Don Lynch



Technical Support 2007

●	Cosmic Ray Run (Run 6.9)	Done ?
●	All Up Commissioning	In Progress
●	RHIC Cooldown Begins	Blue Ring Done, Yellow Ring 2/25/07
●	DC Repairs	Done ?
●	Start 5 man shifts	2/27/07
●	Beam:	blue ring 2/20/07, in yellow ring 2/26/07
●	Start of Physics Run	high Intensity Collisions 3/14/07
●	MuTr FEE upgrade prototype	5/1/07

Schedule

Cosmic Ray Run

Cosmic Ray Run

Are We Done ?



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Commissioning in Progress

Detector Commissioning

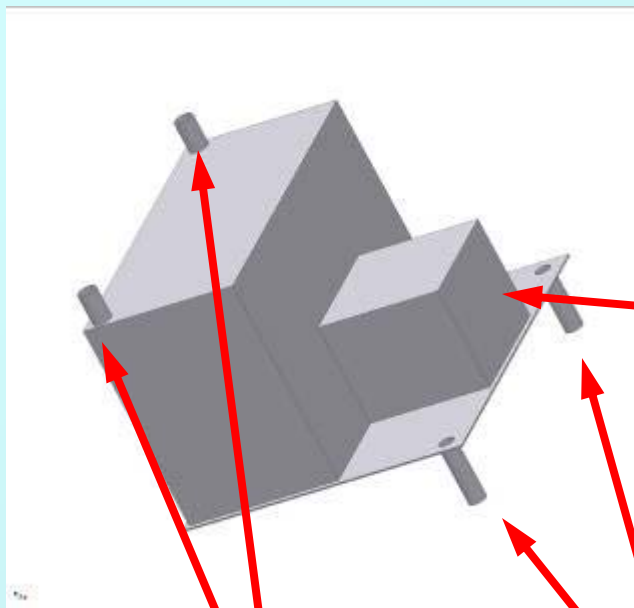


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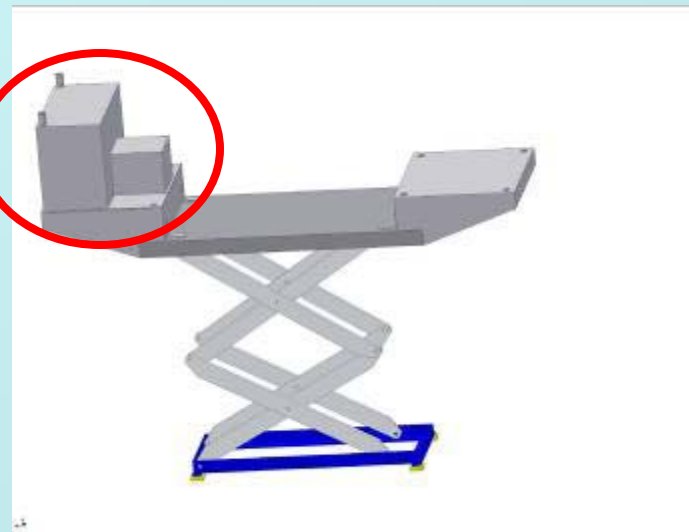
CM Lift Table Mod for DC East Repairs

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20 inch height
Aluminum ~ 70 lbs
Currently at CS for estimate
Ready for Shutdown 07



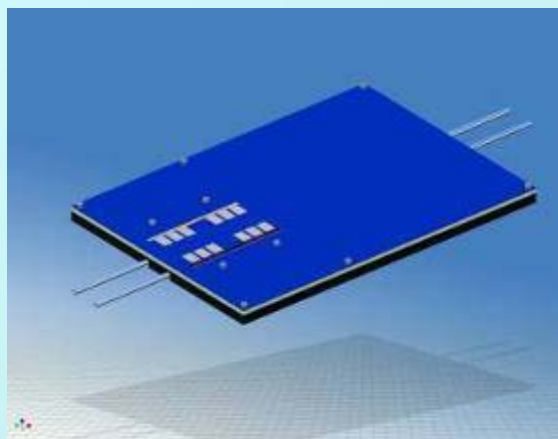
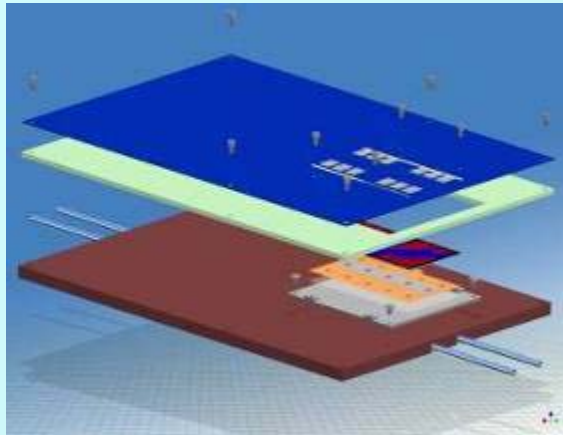
Holders for safety rail



Pins to align and secure to lift
table wing extension

VTX Prototype Test

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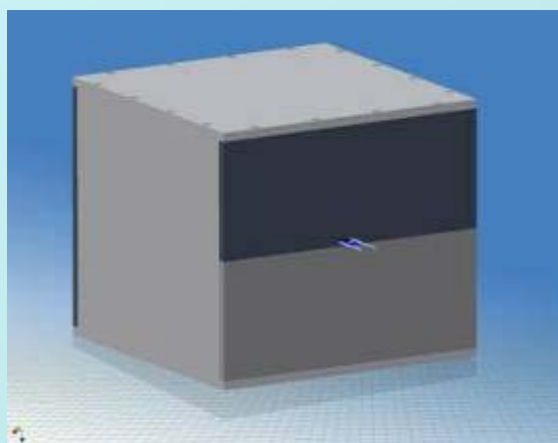
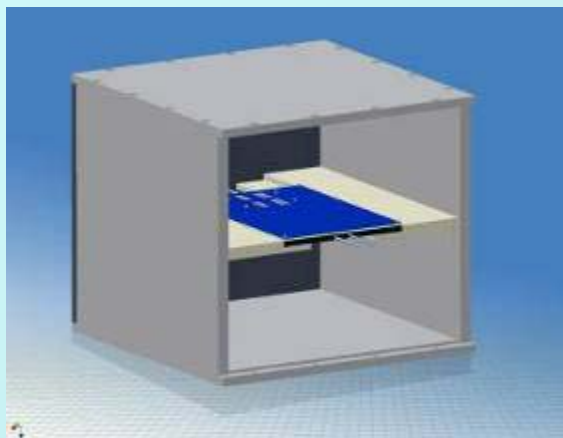


Drawings Done

Fabricate box at 1008
(Carter B.)

Assemble

Test



Procedures Review

2nd cut review of documents $\frac{1}{2}$ done:

- 105 controlled procedures total (1st Cut)
- 69 controlled procedures, 1 CA OPM (2nd cut)
- 44 have at least photo copy of latest version
- 33 have approval signatures on latest
- 30 designated for retirement others, TBD

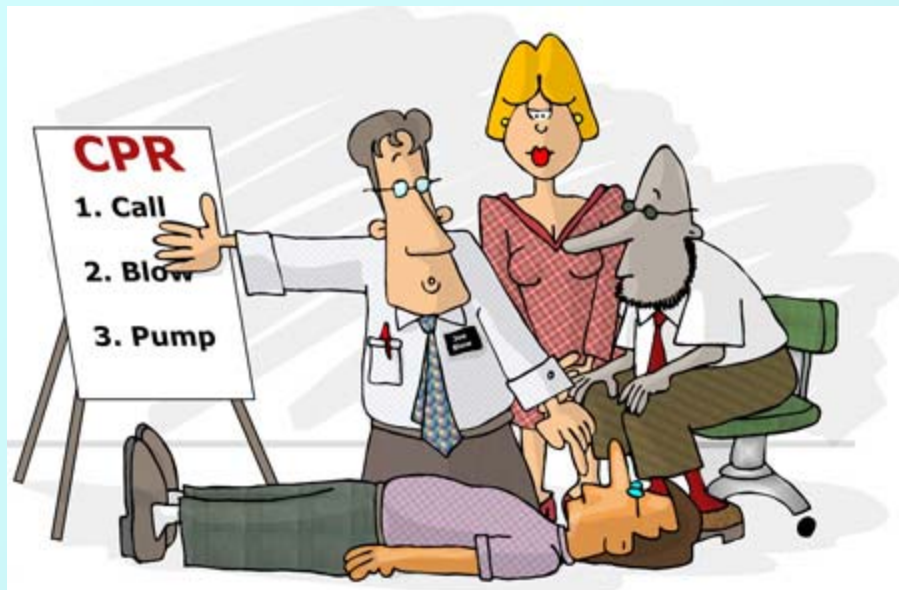
Don, Paul and Rob to process 25 procedures per week until done. 25 last week. 25 more this week

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Safety

We will look into having CPR/first aid training At 1008 for staff.

Otherwise the following is the near future training schedule:

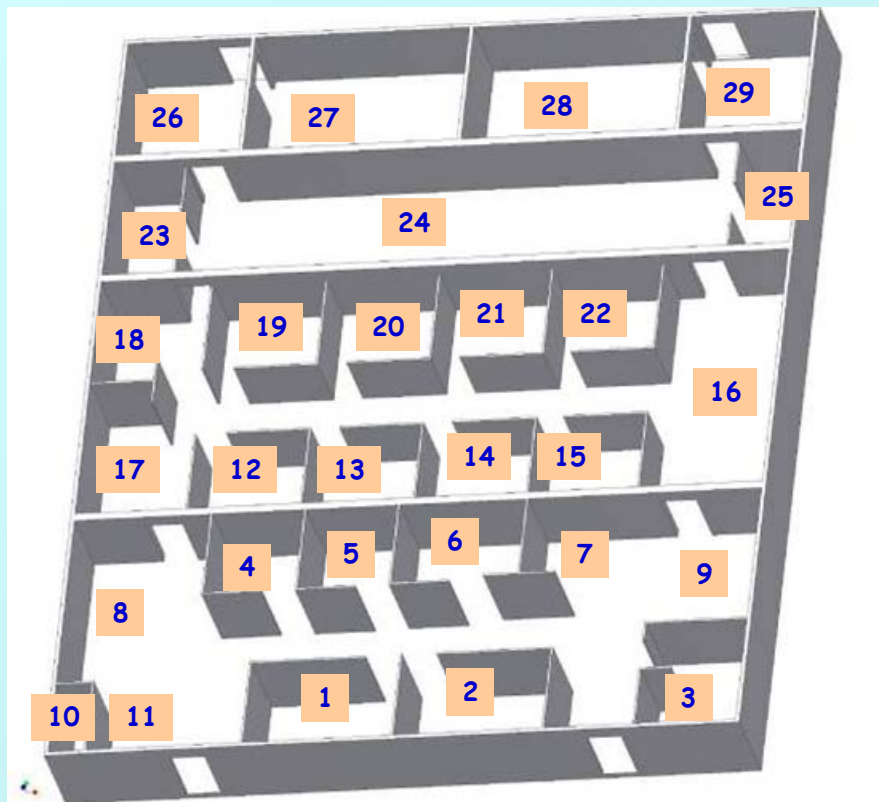
February 13, February 16, February 21, February 23, February 27, March 1, March 5, March 8, March 13, and March 15. All classes begin at 1:30 PM. Can register on-line at

<http://training.bnl.gov/Schedule/calendar.htm>.

Trailer Office Space Allocation

Space Allocation

1. Safety Engr P. Giannotti (PG)
2. Run Coordinator/Chief Engr
3. Documents (PG)
4. Electrician: M. Rau
5. Mu Tracking (M. Leitch)
6. EMCAL
7. HBD
8. Documents (PG)
9. Trailer Conference Area (PG)
10. Computer Network Cage (PG)
11. Printing & Fax (PG)
12. PC
13. Mu Tracking
14. TOF Aerogel
15. RICH
16. BBC
17. TEC
18. TOF West
19. DAQ /Trigger
20. DAQ
21. DC
22. EMCAL
23. ???
24. Analysis Center (RC/PC)
25. MPC (M. Chiu)
26. Storage
27. Ladies' Bathroom (C-A)
28. Men's Bathroom (C-A)
29. Storage

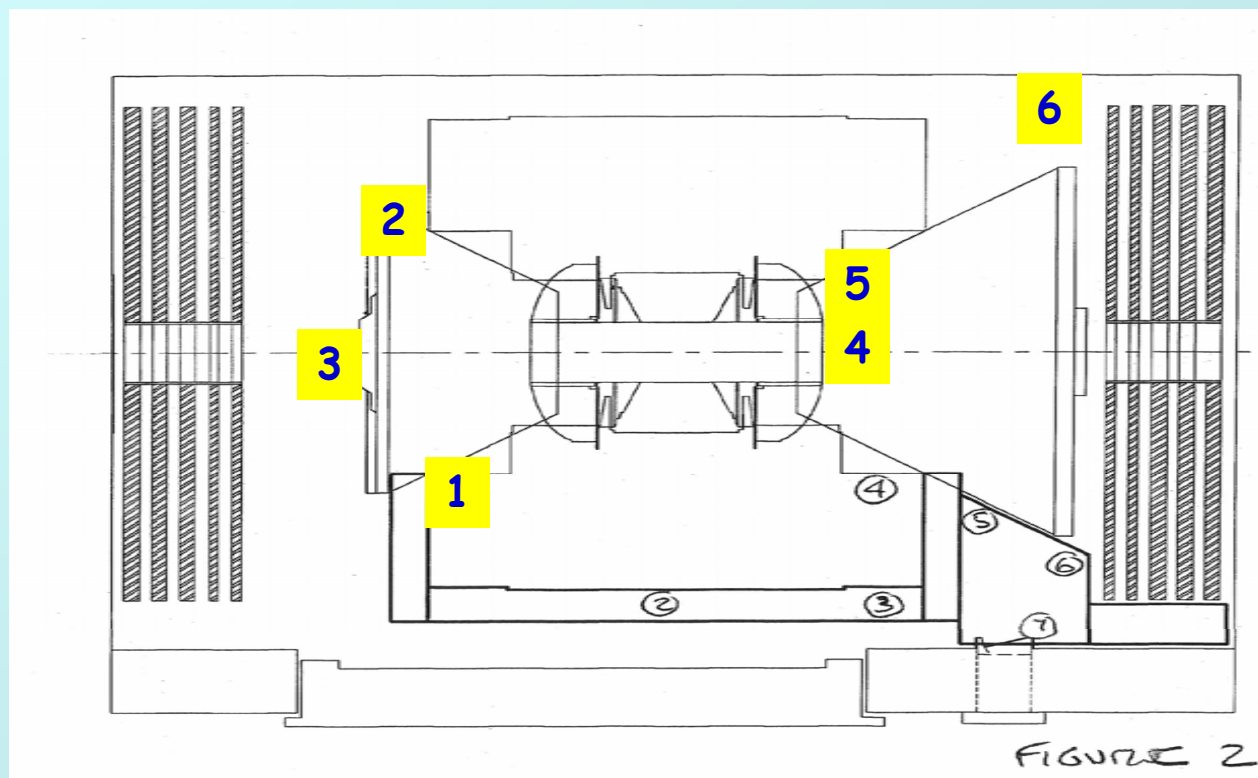


Need: a contact person for each cubicle
put unwanted equipment in "8" for disposal
storage space for wanted equipment needed

Magnet Fringe Field Tests

Case 1: All magnets on, all normal polarity except CMI reversed, EC & WC Open

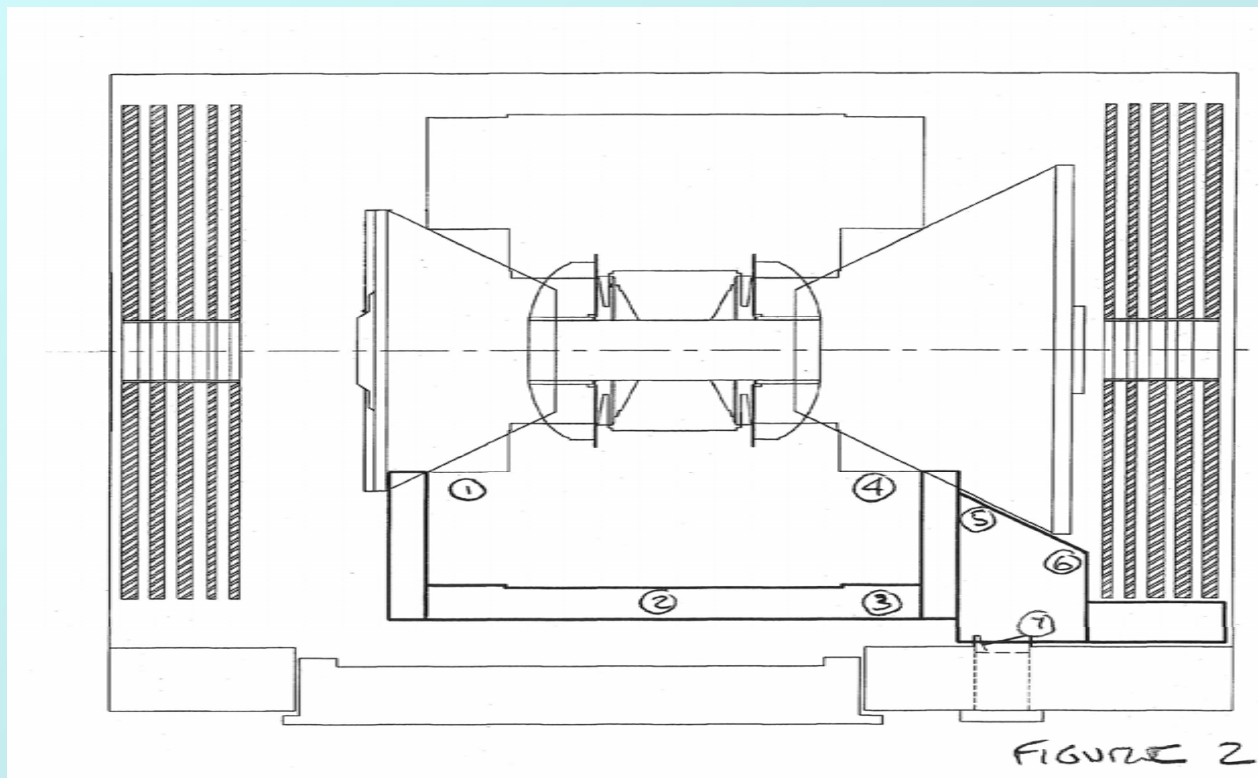
All fields below 50 gauss except where noted by #'s 1 to 5 below, 1 is 3rd level EC, 2, 3 & 6 are track level, 4&5 are under MMN . Highest field = 83 gauss



Magnet Fringe Field Tests

Case 2: All magnets on & normal polarity Open, WC Closed

All fields measured below 50 gauss on all levels

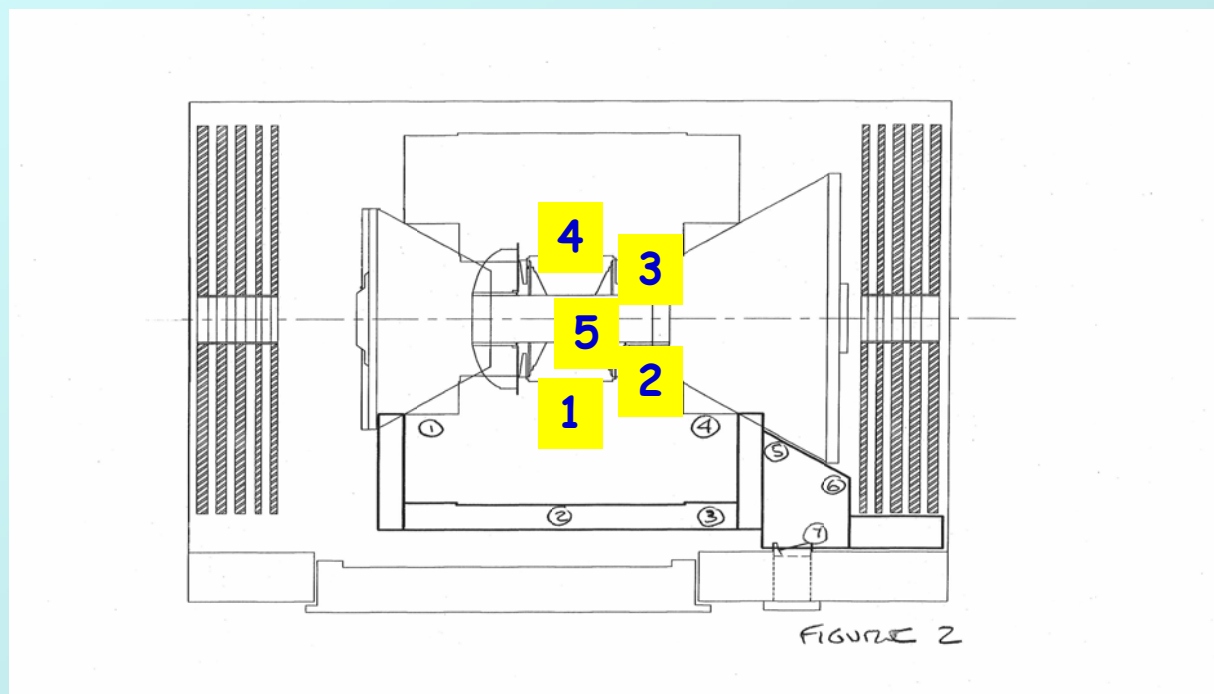


Magnet Fringe Field Tests

Case 3: Muon magnets N&S on & normal polarity EC & WC Open

All fields measured below 50 gauss except locations 1 - 5 below

1-4 are at track level, 5 is at HBD level outside HBD only 5 above 100 gauss (120 gauss), other locations are below 70 gauss



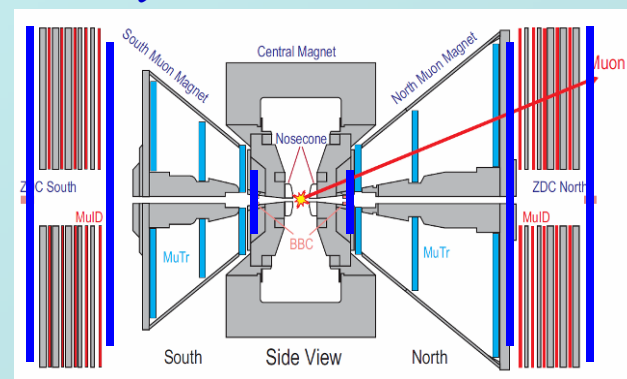
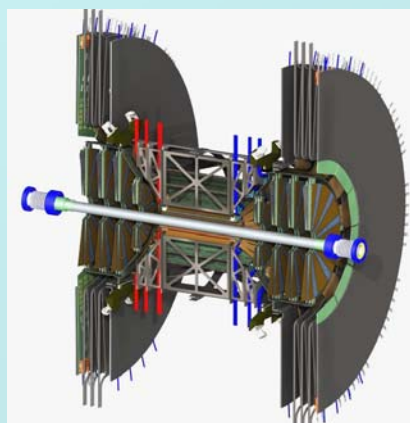
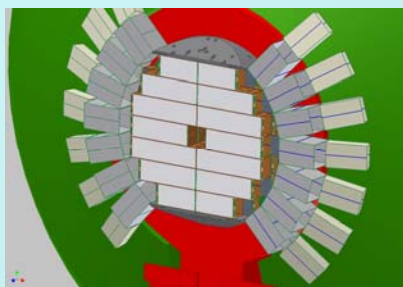
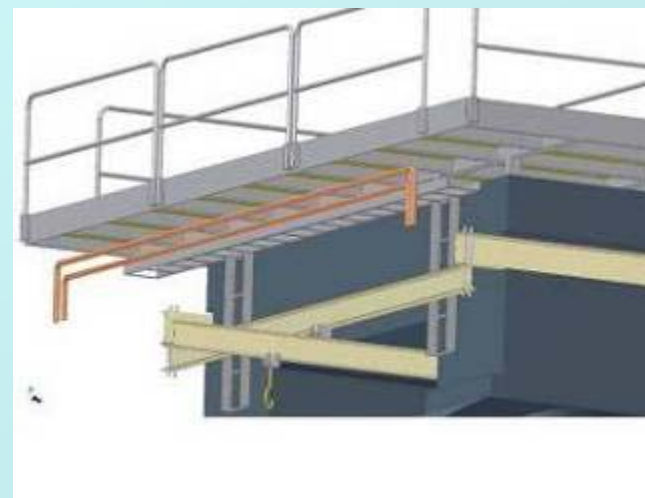
This Week/Next Week

- Cosmic Ray Run support
- Internal Design Reviews for NCC, FVTX and Fast Muon Trigger
- VTX prototype box
- PHENIX Procedure review continues
- CM Lift table wing hinges/extension
- Trailer offices
- Critical lift for MuID collars
- **Start of Run Party**

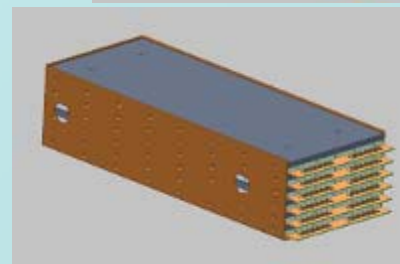
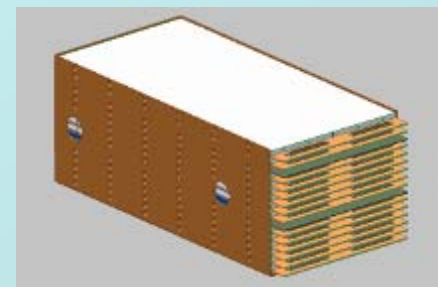
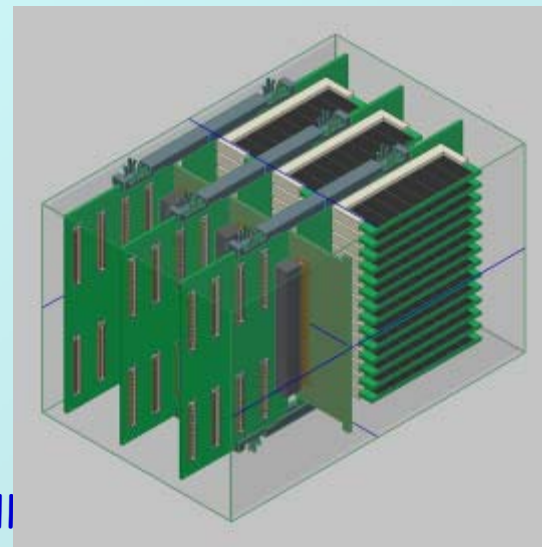


What's up for this year and beyond

- New CM Crane
- New Beam pipe design
- Muon RPC trigger design Review held
- VTX/FVTX design Review held
- NCC design - Review held
- MuTr upgrade
- Infrastructure improvements
- Gas system documentation (summer student)

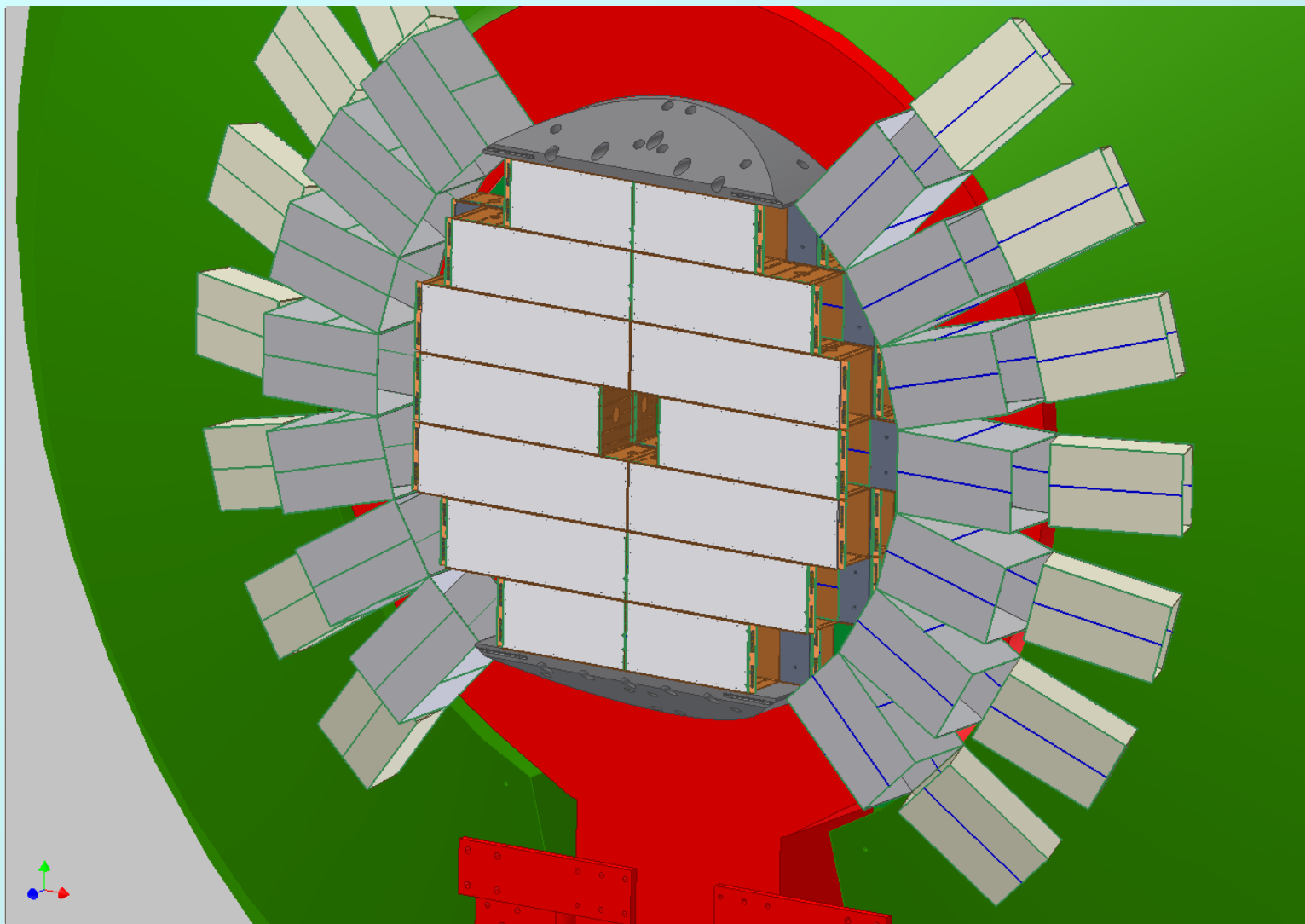


- Scope of NCC proposal to DOE:
 - 1 NCC ~ \$4M
 - About $\frac{1}{2}$ is Si Detector, rest is spread between electronics, mechanics, etc.
 - Begin Funding in FY2008
(note \$4.7M in Pres. Budget for FY 2008)
 - All Critical physics can be done with 1 NCC
 - remaining design issues will be resolved by fall 2007
 - ready for construction beginning FY 2008
 - Complete Construction in 2010
Installation during summer 2010 shutdown
 - Build second NCC from Collaboration funds



Looking Ahead: NCC

Technical Support 2007



Looking Ahead: FVTX

TECHNICAL SUPPORT 2007

LANL and BNL R+D required

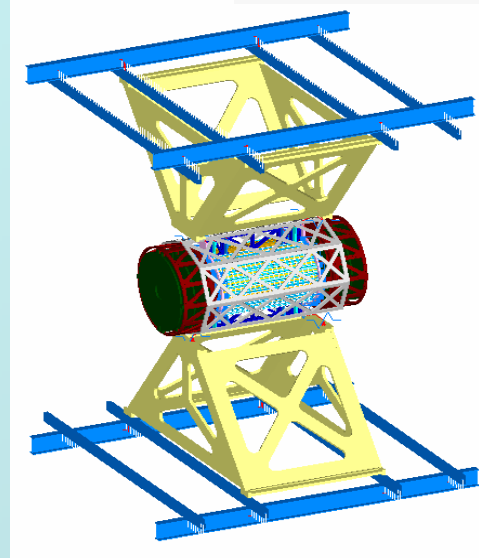
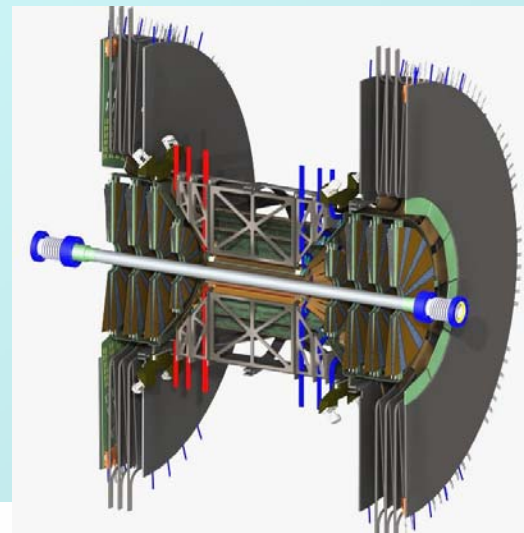
- Design and prototype chip+ silicon now→ 01/08
- Design and prototype DAQ interface now→12/07

Construction:

- Production + assembly 01/08→ 06/10
- DAQ Interface, LV, HV...parallel
- Installed 10/10

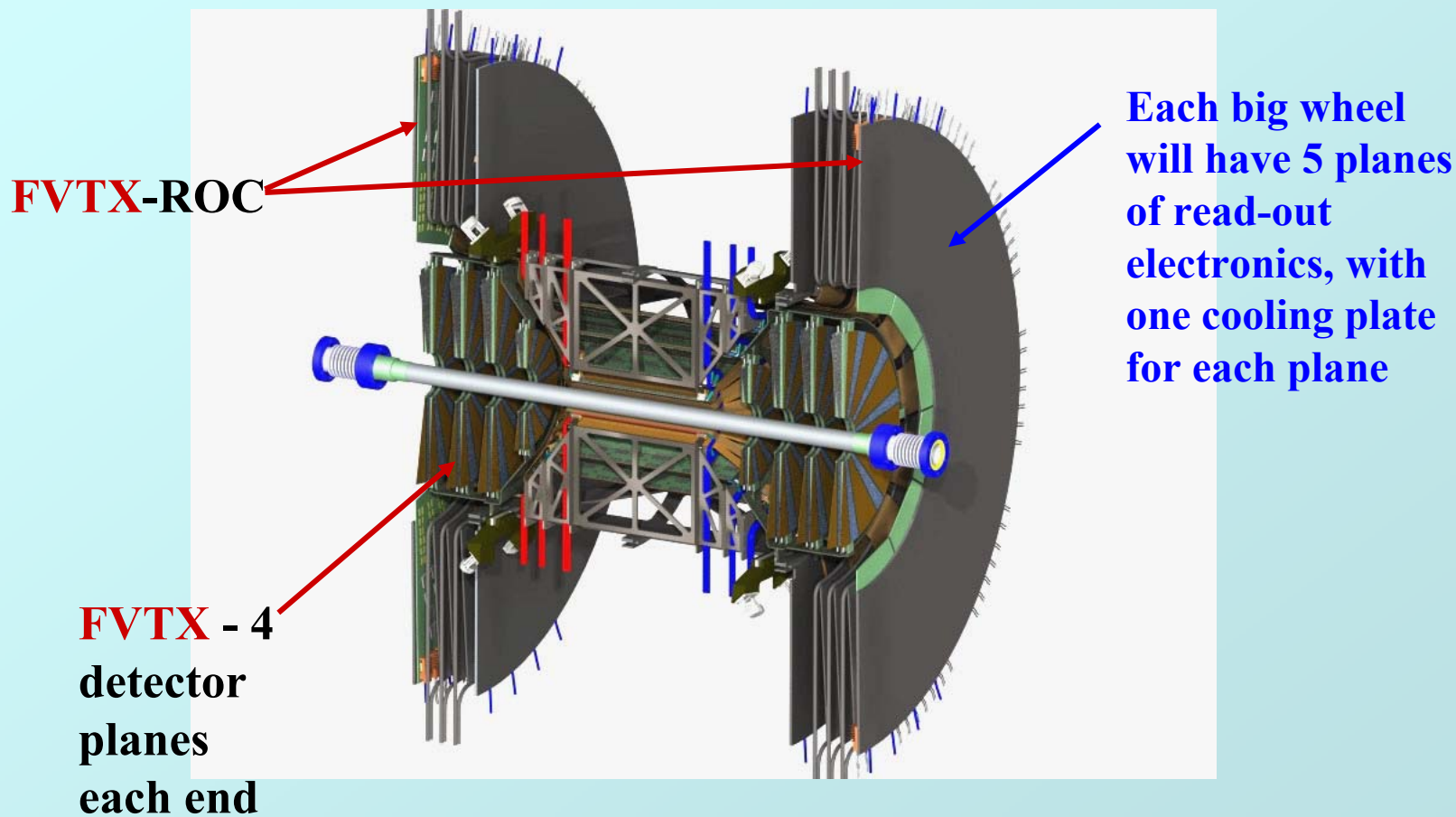
Cost

LANL R+D:	\$714k
BNL R+D:	\$175k
Construction (DOE):	\$4.57M



Looking Ahead: FVTX

Baseline design for the **VTX** and **FVTX** detectors;



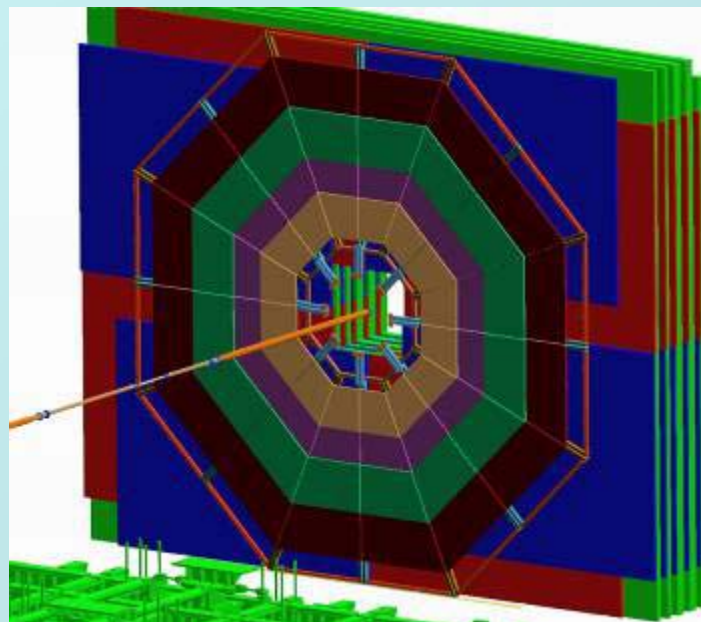
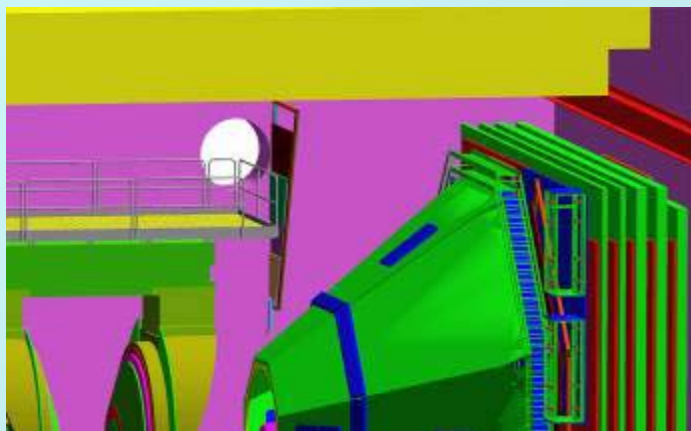
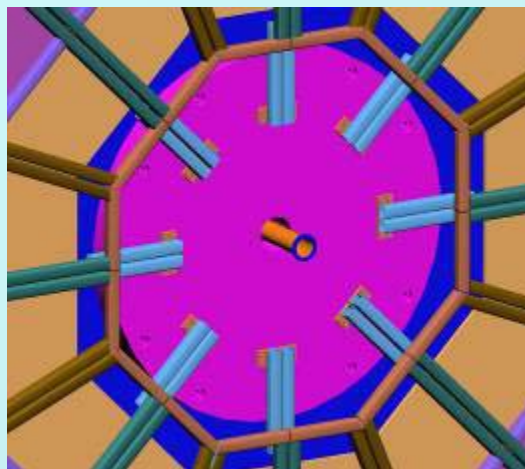
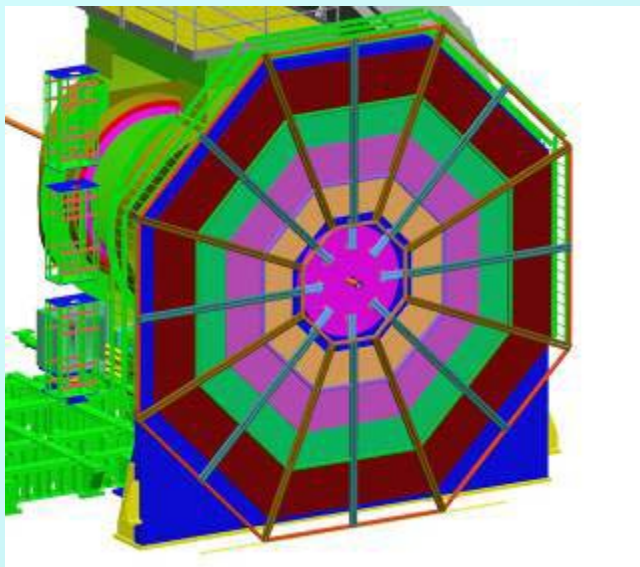
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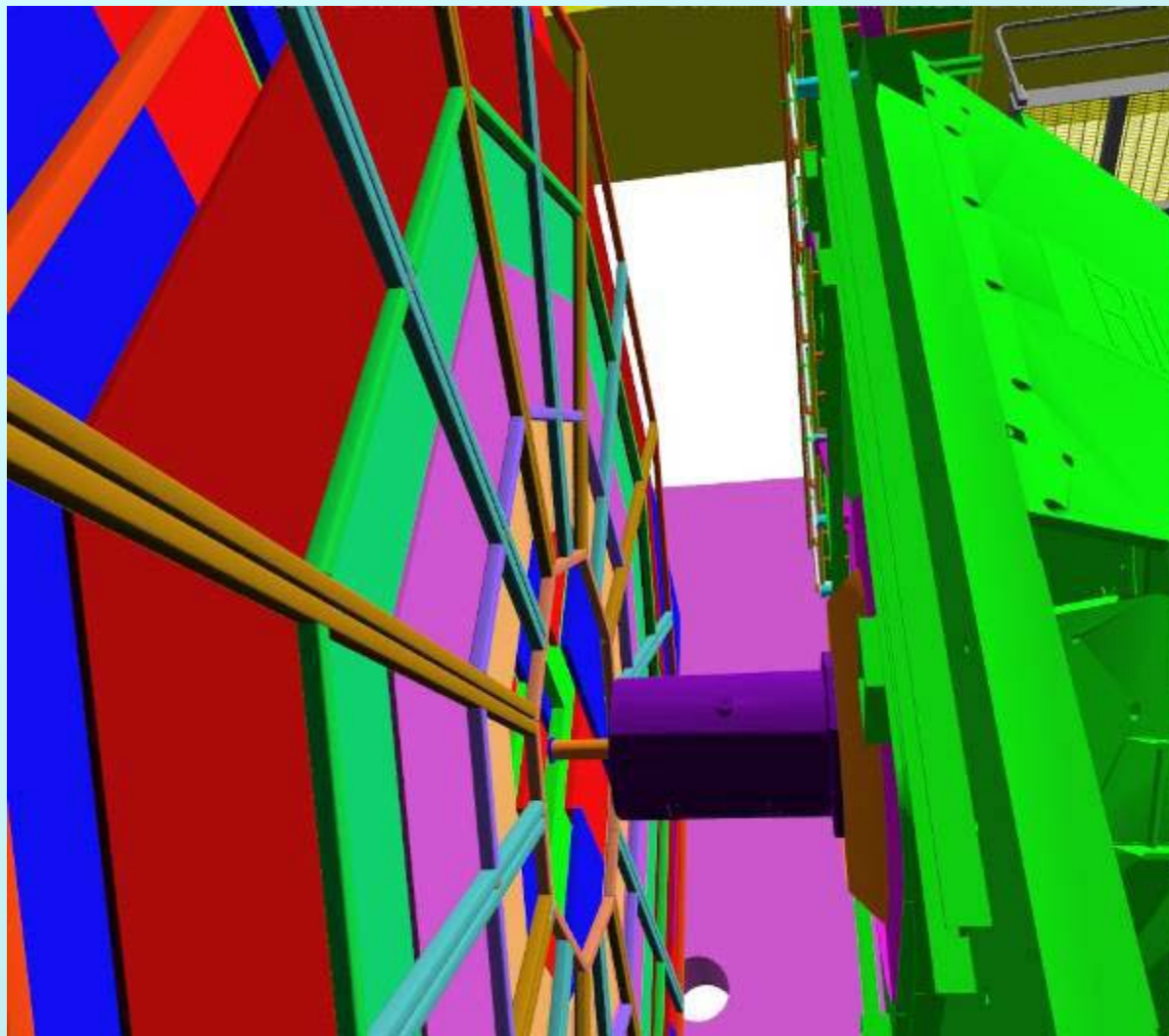


RPC2 N



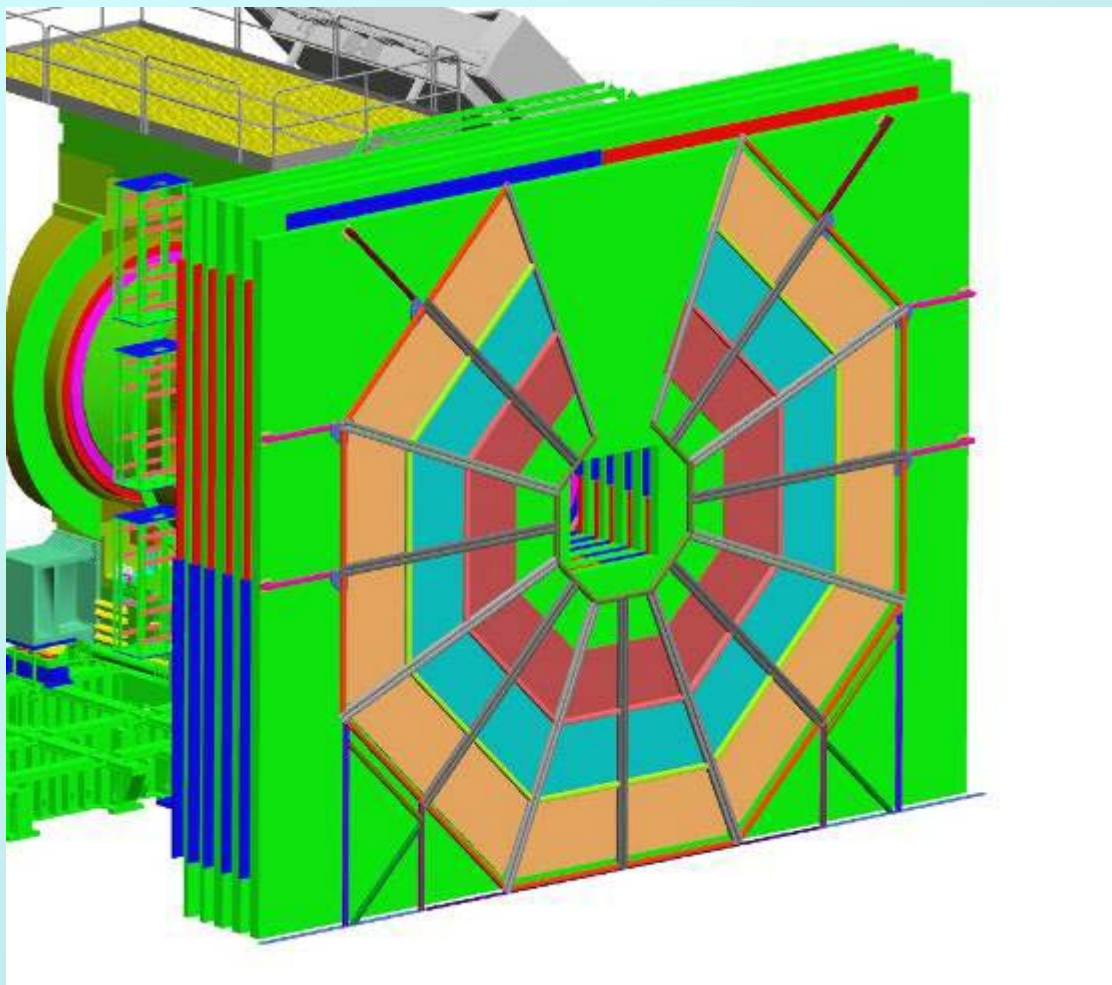
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RPC2 S



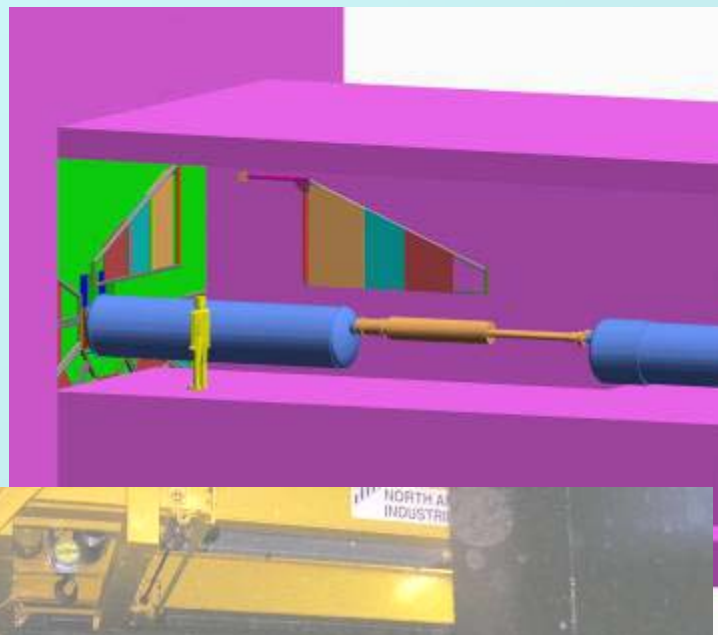
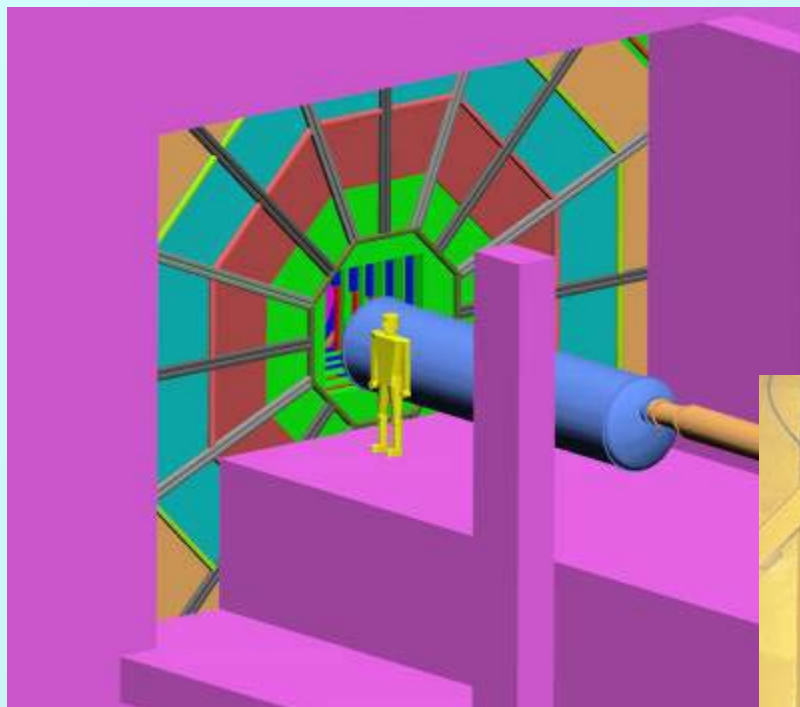
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RPC3 N&S

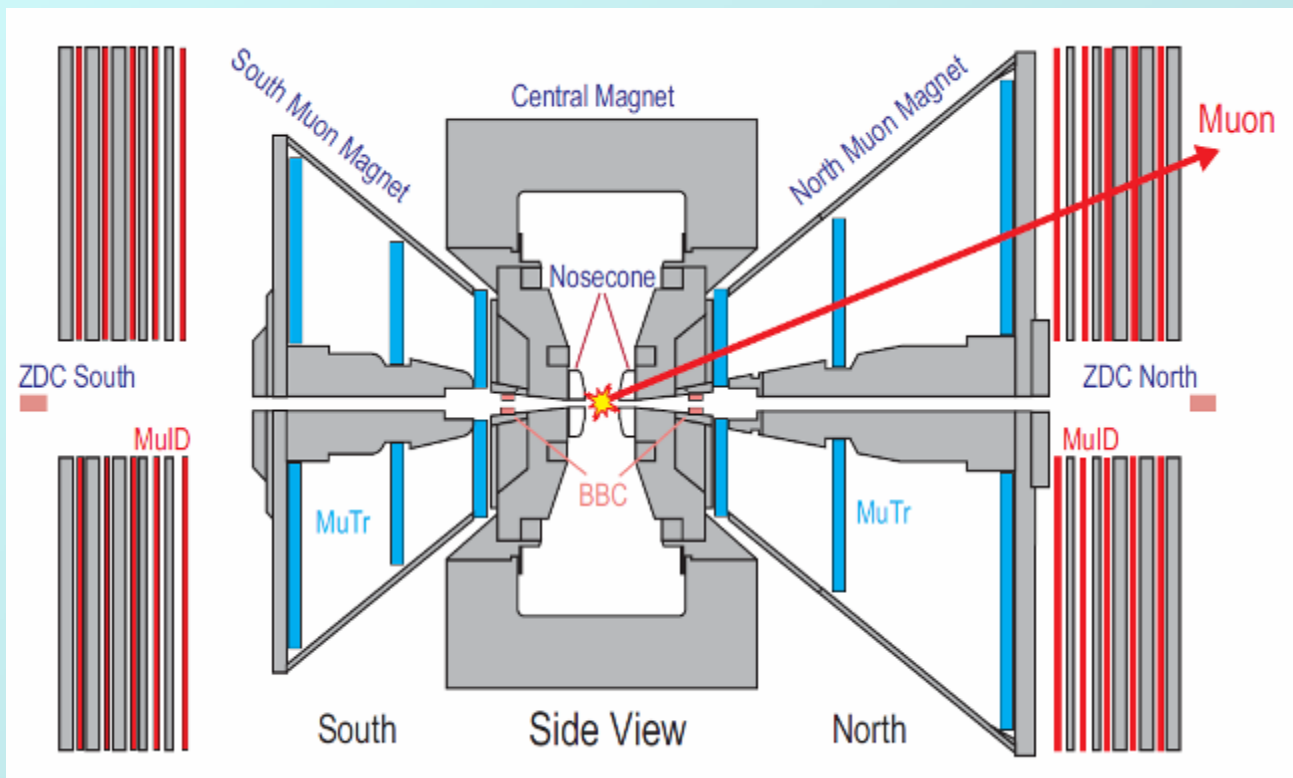
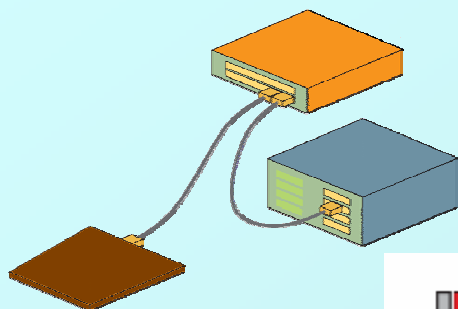
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RPC3 N&S

Technical Support 2007



Mu Tr FEE Upgrade



TECHNICAL SUPPORT 2007

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- Summer 07
 - Setup BNL RPC Factory
 - Install FEE Upgrade 1 octant MuTR 1,2 South
- Summer 08
 - Install RPC 3 South
 - Install FEE Upgrade MuTR 1, 2 South (all octants)
 - Install LL1 South
 - Install Cu absorber for 1 South octant
- Summer 09
 - Install RPC 3 North
 - Install RPC 2 South and North
 - Install FEE Upgrade MuTR 1, 2 North (all octants)
 - Install LL1 North
 - Install Full Cu absorber + NCC tungsten
- Summer 11
 - Remove Cu Shielding
 - Install RPC 1AB North and South
 - Install FEE Upgrade MuTR 3, South and North

Shutdown 2007

Get your requests in early
for Run 7 tech work

Get your requests in early
for shutdown 2007 work



Where To Find PHENIX Technical Info



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

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